If No proceed to 7 (b); if Yes skip to question 8 and do not consider earthen basin-type BMPs

(b) Assess infiltration of an infiltration BMP that is used in conjunction with biofiltration. Include infiltration losses from biofiltration, if biofiltration is feasible. ☐Complete

(use 24 hr WQV)

___ < 20% (do not consider this BMP combination)

___ 20% - 50%

___ 50% - 90%

___ >90%

Is at least 90 percent infiltration estimated? If Yes proceed to 13. If No proceed to 7(c). ☐Yes ☐No

(c) Assess infiltration of biofiltration with combinations with remaining approved earthen BMPs using water quality volumes based on the drain time of those BMPs. This assessment will be used in subsequent BMP selection matrices.

| Earthen Detention Basin (use 48 hr WQV) | Earthen Austin SF (use 48 hr WQV) |
|---|---|
| ___ < 20% | ___ < 20% |
| ___ 20% - 50% | ___ 20% - 50% |
| ___ > 50% | ___ > 50% |

☐Complete

Continue to Question 8

8. Identifying BMPs based on the Target Design Constituents

(a) Does the project discharge to a water body that has been placed on the 303-d list or has had a TMDL adopted? If "No," use Matrix A to select BMPs, consider designing to treat 100% of the WQV, then skip to question 12. ☐Yes ☐No

If Yes, is the identified pollutant(s) considered a Targeted Design Constituent (TDC) (check all that apply below)?

| | |
|---|---|
| ☐ sediments | ☐ copper (dissolved or total) |
| ☐ phosphorus | ☐ lead (dissolved or total) |
| ☐ nitrogen | ☐ zinc (dissolved or total) |
| | ☐ general metals (dissolved or total)[3] |

(b) Treating Sediment. Is sediment the only TDC? If Yes, use Matrix A to select BMPs, then skip to question 12. Otherwise, proceed to question 9. ☐Yes ☐No

[3] General metals include cadmium, nickel, chromium, and other trace metals. Note that selenium and arsenic are not metals. Mercury is a metal, but is considered later during BMP selection, under Question 12 below.

| BMP Selection Matrix A: General Purpose Pollutant Removal | | | |
|---|---|---|---|
| Consider approaches to treat 100% of the WQV with combinations of the BMPs in this table. The highest preference is for Tier 1, followed by Tier 2. Within each Tier, BMP selection will be determined by the site-specific determination of feasibility (Section 2.4.2.1). BMPs that infiltrate should be highlighted in the infiltration category summarized in question 7 (f) and listings of BMPs that infiltrate in other categories should be ignored. | | | |
| | BMP ranking for infiltration category: | | |
| | Infiltration < 20% | Infiltration 20% - 50% | Infiltration > 50% |
| Tier 1 | Strip: HRT > 5<br>Austin filter (concrete)<br>Austin filter (earthen)<br>Delaware filter<br>MCTT<br>Wet basin | Austin filter (earthen)<br>Detention (unlined)<br>Infiltration basins*<br>Infiltration trenches*<br>Biofiltration Strip | Austin filter (earthen)<br>Detention (unlined)<br>Infiltration basins*<br>Infiltration trenches*<br>Biofiltration Strip<br>Biofiltration Swale |
| Tier 2 | Strip: HRT < 5<br>Biofiltration Swale<br>Detention (unlined) | Austin filter (concrete)<br>Delaware filter<br>Biofiltration Swale<br>MCTT<br>Wet basin | Austin filter (concrete)<br>Delaware filter<br>MCTT<br>Wet basin |
| HRT = hydraulic residence time (min)<br><br>*Infiltration BMPs that infiltrate the water quality volume were considered previously, so only undersized infiltration BMPs or hybrid designs are considered where infiltration is less than 90% of the water quality volume. | | | |

9. Treating both Metals and Nutrients.

   Is copper, lead, zinc, or general metals *AND* nitrogen or phosphorous a TDC? If Yes use Matrix D to select BMPs, then skip to question 12. Otherwise, proceed to question 10. ☐Yes ☐No

10. Treating Only Metals.

    Are copper, lead, zinc, or general metals listed TDCs? If Yes use Matrix B below to select BMPs, and skip to question 12. Otherwise, proceed to question 11. ☐Yes ☐No